

COD CLOSED REFLUX, TITRIMETRIC METHOD SM 18 <sup>TH</sup> 5220 C					
Facility Name: _____ VELAP ID _____					
Assessor Name: _____ Analyst Name: _____ Inspection Date _____					
Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst: _____					
Sample ID: _____ Date of Sample Preparation: _____ Date of Analysis: _____					
Were samples stored at 4°C?	5010 B				
Were samples containing suspended solids homogenized?	5220 A 1				
Were samples containing settleable solids homogenized?	5220 A 3				
If the delay of sample analysis was unavoidable, were samples preserved to a pH ≤ 2 with sulfuric acid?	5220 A 3				
Was the preservative, if used, shown not to interfere with analysis?	5010 B				
Was the ferrous ammonium sulfate titrant (FAS) standardized daily against standard K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> digestion solution?	5220 C 3 d				
Were tubes and caps washed with 20% sulfuric acid prior to first use?	5220 C 4				
Were vessels containing sample aliquots, K <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> digestion solution, and sulfuric acid/silver sulfate reagent refluxed for 2 hours at 150°C?	5220 C 4				
After refluxing were samples cooled and titrated with ferroin indicator against FAS?	5220 C 4				
Was the end-point a change from blue-green to reddish brown?	5220 C 4				
Was a reagent blank refluxed and titrated in the same manner as samples?	5220 C 4				
Was a distilled water blank of the same volume as samples refluxed and titrated in the same manner as samples?	5220 C 4				
Notes/Comments:					

